

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/569,766
Source: JFWP
Date Processed by STIC: 03/06/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/569,766
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/569,766

DATE: 03/06/2006

TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

4 <110> APPLICANT: Crothers, Donald M.
 6 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE SEQUESTERING AGENTS AND
 7 METHODS OF USE
 9 <130> FILE REFERENCE: GENOM.032NP
 > 11 <140> CURRENT APPLICATION NUMBER: US/10/569,766
 > 11 <141> CURRENT FILING DATE: 2006-02-23
 11 <150> PRIOR APPLICATION NUMBER: PCT/US2004/027412
 12 <151> PRIOR FILING DATE: 2004-08-23
 14 <150> PRIOR APPLICATION NUMBER: 60/497,821
 15 <151> PRIOR FILING DATE: 2003-08-25
 17 <160> NUMBER OF SEQ ID NOS: 26
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 54
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 27 tctgtaagag cagatccctg gacaggcaag gaatacagag ggcagcagac atcg
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 27
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Artificial Sequence
 34 <220> FEATURE:
 35 <223> OTHER INFORMATION: First complementary nucleic acid
 37 <400> SEQUENCE: 2
 38 gcctgtccag ggatctgctc ttacaga
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 22
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Second complementary nucleic acid
 48 <400> SEQUENCE: 3
 49 ggacaaaata cctgtattcc tt
 51 <210> SEQ ID NO: 4
 52 <211> LENGTH: 41
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: n-dideoxyG
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Sequestering agent
 62 <400> SEQUENCE: 4

CP8-6)
 Does Not Comply
 Corrected Diskette Needed
 CP8 1, 2, 3, 4, 5

Invalid Response. What is the
 Source of genetic
 Material. PLS see
 Item 11 on Error
 Summary
 Sheet

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Input Set : A:\GENOM.032NP.TXT

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> 63 gatccctgga caggccggaa gcggcttttt tgccgcttcc n 41
 65 <210> SEQ ID NO: 5
 66 <211> LENGTH: 41
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: Sequestering agent
 73 <400> SEQUENCE: 5
 74 gtgccgagac gttttttcgt ctggcacta ggaatacagg t 41
 76 <210> SEQ ID NO: 6
 77 <211> LENGTH: 26
 78 <212> TYPE: DNA
 79 <213> ORGANISM: Artificial Sequence
 81 <220> FEATURE:
 82 <223> OTHER INFORMATION: First complementary nucleic acid
 84 <400> SEQUENCE: 6
 85 ctcccgaga caccttctcc ttcaag 26
 87 <210> SEQ ID NO: 7
 88 <211> LENGTH: 15
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Artificial Sequence
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: Second complementary nucleic acid
 95 <400> SEQUENCE: 7
 96 tgatgatgaa atcgg 15
 98 <210> SEQ ID NO: 8
 99 <211> LENGTH: 15
 100 <212> TYPE: DNA
 101 <213> ORGANISM: Artificial Sequence
 103 <220> FEATURE:
 104 <223> OTHER INFORMATION: Third complementary nucleic acid
 106 <400> SEQUENCE: 8
 107 tgatgatgaa atcga 15
 109 <210> SEQ ID NO: 9
 110 <211> LENGTH: 39
 111 <212> TYPE: DNA
 112 <213> ORGANISM: Artificial Sequence
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: n=dideoxyG
 117 <220> FEATURE:
 118 <223> OTHER INFORMATION: First sequestering agent
 120 <400> SEQUENCE: 9
 121 ggtgtctgcg ggagcggaag cggctttttg ccgcttccn 39
 123 <210> SEQ ID NO: 10
 124 <211> LENGTH: 37
 125 <212> TYPE: DNA
 126 <213> ORGANISM: Artificial Sequence
 128 <220> FEATURE:
 129 <223> OTHER INFORMATION: Second sequestering agent

Same Enon

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/569,766

DATE: 03/06/2006

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Input Set : A:\GENOM.032NF.TXT

Output Set: N:\CRF4\03062006\J569766.raw

131 <400> SEQUENCE: 10
132 gctgcaccgc ttttttgccg tgcaccgat ttcacga 37
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 37
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Third sequestering agent
142 <400> SEQUENCE: 11
143 gctgcaccgc ttttttgccg tgcactcgat ttcacga 37
145 <210> SEQ ID NO: 12
146 <211> LENGTH: 96
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: RC probe
153 <400> SEQUENCE: 12
154 gcacctcaaa gctgttcctg cccagttgac taccctcagt gaattctagc tactggcaat 60
155 ctgatcccta tagtgagtcg tattacaggc acaaac 96
157 <210> SEQ ID NO: 13
158 <211> LENGTH: 15
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: 2 tag
165 <400> SEQUENCE: 13
166 agctactggc aatct 15
168 <210> SEQ ID NO: 14
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: T7 promoter
176 <400> SEQUENCE: 14
177 ccctatagtg agtcgtatta 20
179 <210> SEQ ID NO: 15
180 <211> LENGTH: 6
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Eco RI site
187 <400> SEQUENCE: 15
188 gaattc 6
190 <210> SEQ ID NO: 16
191 <211> LENGTH: 3
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: 3' nucleotide gap

same
over

RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/569,766

TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

198 <400> SEQUENCE: 16
199 gat 3
201 <210> SEQ ID NO: 17
202 <211> LENGTH: 13
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Sequence complementary to p53
209 <400> SEQUENCE: 17
210 caggcacaaa cac 13
212 <210> SEQ ID NO: 18
213 <211> LENGTH: 24
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Sequence complementary to p53
220 <400> SEQUENCE: 18
221 gcacctcaaa gctgttcggt ccca 24
223 <210> SEQ ID NO: 19
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: RC primer
231 <400> SEQUENCE: 19
232 gataggagtc acttaagatc g 21
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 34
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 20
240 ctaatctgta agagcagatc cctggacagg caag 34
242 <210> SEQ ID NO: 21
243 <211> LENGTH: 22
244 <212> TYPE: DNA
245 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 21
248 aaggaataca ggtattttgt cc 22
250 <210> SEQ ID NO: 22
251 <211> LENGTH: 14
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: F5 1698 T7 Probe
258 <400> SEQUENCE: 22
259 gcctgtccag ggat 14
261 <210> SEQ ID NO: 23
262 <211> LENGTH: 37
263 <212> TYPE: DNA

3

13

24

21

34

22

14

same error

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/06/2006
PATENT APPLICATION: US/10/569,766 TIME: 13:35:25

Input Set : A:\GENOM.032NP.TXT
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ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:4; N Pos. 41

#:9; N Pos. 39

#:23; N Pos. 37

VARIABLE LOCATION SUMMARY

DATE: 03/06/2006

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of n's or Xaa's (NEW RULES):

of n's and/or Xaa's have been detected in the Sequence Listing.

of <220> to <223> is MANDATORY if n's or Xaa's are present.

**<220> to <223> section, please explain location of n or Xaa, and which
idue n or Xaa represents.**

#:4; N Pos. 41

#:9; N Pos. 39

#:23; N Pos. 37

VERIFICATION SUMMARY

DATE: 03/06/2006

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Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

1 M:270 C: Current Application Number differs, Replaced Current Application No
1 M:271 C: Current Filing Date differs, Replaced Current Filing Date
3 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4
3 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4
3 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
21 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9
21 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
21 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
73 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23
73 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23
73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0